

WE CLAIM:

1. An actuator for a disk drive, the actuator comprising:
 - an actuator body including:
 - a main body section defining a horizontal plane orthogonal to an axis of rotation;
 - an actuator arm extending from the main body section;
 - two parallel support extensions extending from the main body section opposite the actuator arm, the support extensions cooperatively forming a channel between the support extensions; and
 - a coil support tab disposed adjacent the support extensions and extending orthogonal to the horizontal plane; and
 - a vertical coil defining a coil plane disposed orthogonal to the horizontal plane, the coil being disposed in mechanical communication with the support extensions and the coil support tab for supporting the coil within the channel.

2. The actuator of Claim 1 wherein the actuator body is formed of a single integrated piece of material.
3. The actuator of Claim 1 wherein the coil support tab is integrally formed with the main body section.
4. The actuator of Claim 1 wherein the actuator body is formed of a stamped material.
5. The actuator of Claim 1 wherein the actuator body is formed of a sheet metal material.
6. The actuator of Claim 1 wherein the coil support tab extends from the main body section.
7. The actuator of Claim 1 wherein the coil support tab is disposed between the support extensions.
8. The actuator of Claim 1 wherein the coil support tab is bent from a position between the support extensions within the horizontal plane.
9. The actuator of Claim 1 wherein the coil includes a pair of opposing primary legs and pair of opposing secondary legs respectively disposed between the primary legs, a respective one of the primary legs is disposed in mechanical communication with the support extensions within the channel, a respective one of the secondary legs is disposed in mechanical communication with the coil support tab.
10. The actuator of Claim 9 wherein the respective one of the secondary legs includes a radially exterior surface disposed in mechanical communication with coil support tab.
11. The actuator of Claim 8 wherein the primary legs are longer than the secondary legs.
12. The actuator of Claim 1 wherein the coil is attached to the coil support tab.
13. The actuator of Claim 12 wherein the coil is attached to the coil support tab with an adhesive.
14. The actuator of Claim 1 wherein the coil is attached to the support extensions.

15. The actuator of Claim 14 wherein the coil is attached to the support extensions with an adhesive.

16. The actuator of Claim 1 wherein the support extensions extend from the main body section along the horizontal plane.

17. A disk drive comprising:
 - a disk drive base; and
 - an actuator rotatably coupled to the disk drive base, the actuator including:
 - an actuator body formed of an integrated stamped material, the actuator body including:
 - a main body section defining a horizontal plane orthogonal to an axis of rotation;
 - an actuator arm extending from the main body section;
 - two parallel support extensions extending from the main body section opposite the actuator arm, the support extensions cooperatively forming a channel between the support extensions; and
 - a coil support tab disposed adjacent the support extensions and extending orthogonal to the horizontal plane; and
 - a vertical coil defining a coil plane disposed orthogonal to the horizontal plane, the coil being disposed in mechanical communication with the support extensions and the coil support tab for supporting the coil within the channel.

18. A method of manufacturing an actuator for a disk drive, the method comprising:
 - a) providing an actuator body:
 - a main body section defining a horizontal plane orthogonal to an axis of rotation;
 - an actuator arm extending from the main body section;
 - two parallel support extensions extending from the main body section opposite the actuator arm, the support extensions cooperatively forming a channel between the support extensions; and
 - a coil support tab portion disposed adjacent the support extensions;
 - b) bending the coil support tab portion to be orthogonal to the horizontal plane to form a coil support tab; and
 - c) attaching a vertical coil to the actuator body, the vertical coil defining a coil plane disposed orthogonal to the horizontal plane, the coil being disposed in mechanical communication with the support extensions and the coil support tab for supporting the coil within the channel.

19. The method of Claim 18 wherein step a) includes stamping the actuator body from a sheet material.
20. The method of Claim 18 wherein the actuator body is formed of a single integrated piece of material.
21. The method of Claim 18 wherein the main body section is integrally formed with the coil support tab portion.
22. The method of Claim 18 wherein the vertical coil is attached to the actuator body with an adhesive.